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SilverSATA™ II FH
USER'S MANUAL

Revised 9/14/2006

Features

- Triple Interface for a variety of connectivity options. Use fast FireWire 800 (1394b), FireWire 400 (1394a), or widely-available USB 2.0.
- Use the drives independently (JBOD), or combine them into a single volume with a hardware RAID 0.
- In JBOD mode, you can "hot swap" the trays to change out drives quickly. The trays are interchangeable with other products in the SilverSATA series.
- Its attractive design takes up little desktop space, occupying a tiny footprint for so much storage capability (up to 1.5 Terabytes with currently available drives).
- Sturdy aluminum case provides excellent heat dissipation and rugged durability.

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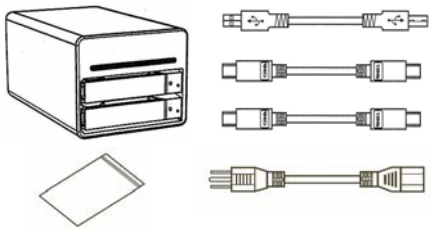
Before Installation

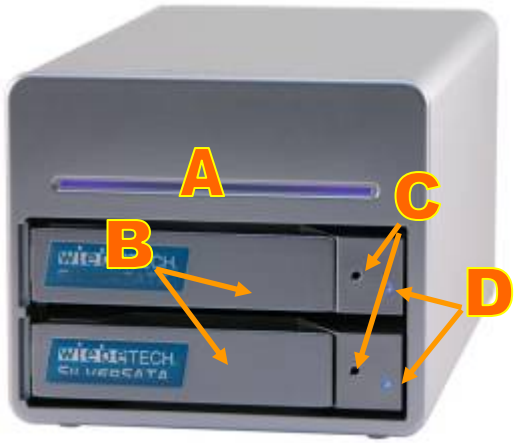
1. Check the accessories with your SilverSATA II FH. Please contact WiebeTech if any items are missing or damaged. The box should contain the following items:

SilverSATA II FH enclosure	1
Removable trays (inside enclosure)	2
FireWire 800 cable	1
FireWire 400 cable	1
USB cable	1
Power cord	1
Packet of keys and drive screws	1
Manual and Warranty information	(on CD)



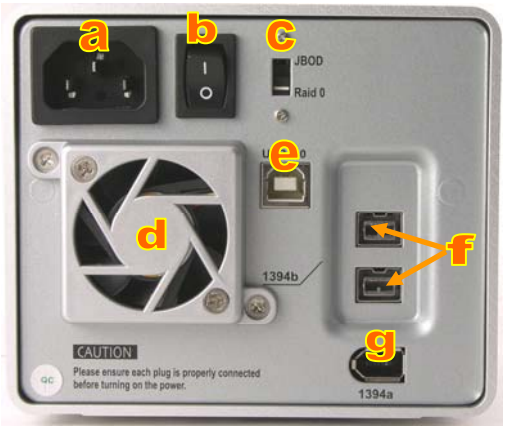
2. Familiarize yourself with the parts of your SilverSATA II FH. This knowledge will be useful during hardware setup.

Front View



A. Power indicator
B. Tray handles
C. Lock holes (Insert key to release)
D. HDD status indicators

Rear View



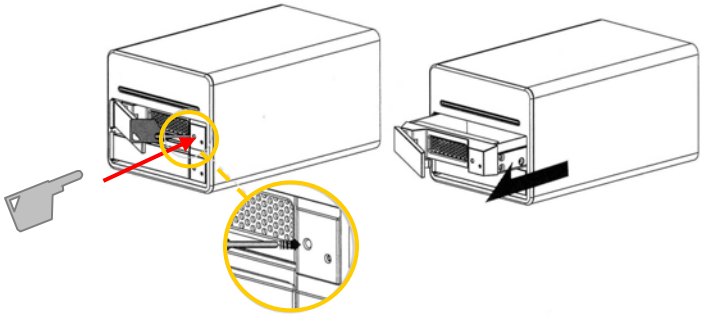
a. Power socket
b. Power switch
c. RAID mode switch (JBOD or RAID 0)
d. Cooling fan (4cm)
e. USB 2.0 port
f. 1394b (FireWire 800) ports
g. 1394a (FireWire 400)port

WARNING: Do not block the ventilation fan during operation. Overheating may damage the device or hard drives.

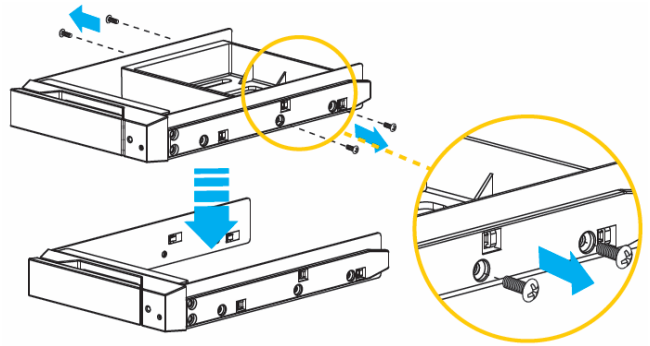
Installing Hard Drives

You may skip this section if you purchased the product with hard drives preinstalled.

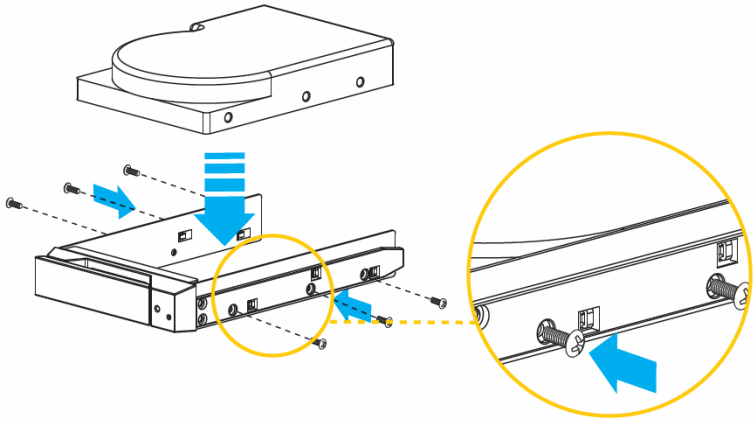
1. Remove a tray from the SilverSATA II FH enclosure. Insert the included key into the lock hole to release the tray's handle and then slide the tray straight out.



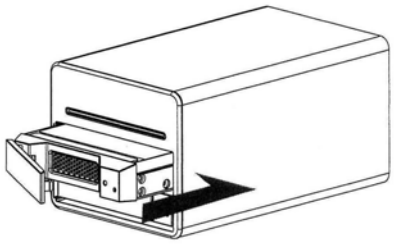
2. Remove the plastic insert from the tray. The plastic inserts help protect the trays during shipment. They are not needed to operate the unit, and must be removed before drives can be installed.



3. Install your SATA hard drive into the tray. Lay the drive into the frame of the removable tray, making sure it lays flat. Align the 4 screw positions then use the included screws (#6-32) to secure the drive into position.



4. Insert the tray into the SilverSATA II FH unit. Gently push the tray along the sliding track into the hard drive compartment and then close the tray, as illustrated below. Repeat steps 1 through 4 for the other tray.



Connecting to a Computer

Plug in the data cable and power cord. The SilverSATA II FH connects to your computer through FireWire 800, FireWire 400, or USB. Use only one of these connection types at one time. All three cable types are included with the SilverSATA II FH.

FireWire 800 connector	*FireWire 400 connector*	*USB connector*

One end of the cable connects to the back of the unit. Insert the other end into the appropriate port on your computer. If you wish to use FireWire, but your computer does not have FireWire ports, host bus adapters are available from WiebeTech (www.wiebetech.com).

Your SilverSATA II FH is now ready to use! Turn on the power switch on the back of the unit. If your drives are already formatted, you can begin using them right away. New hard drives will need to be formatted before they can be used.

Changing the RAID mode

By default, SilverSATA II FH is set to JBOD mode. This allows you to use the two drives as separate, independent volumes. If you would like to combine the drives into a single usable volume, you may do so by changing the RAID mode to RAID 0 via a switch on the rear panel. RAID 0 (also known as “striped” RAID) will split the data between the drives, which can result in faster data speeds. However, if one drive were to fail, the data on both drives would be irretrievably lost. After changing the RAID mode, you will need to reformat the hard drives.

WARNING: Always back up data before switching RAID types. You must reformat your hard drives afterwards.

Usage with Macintosh computers

Compatibility

The SilverSATA II FH is Plug-and-Play compatible under Mac OS X. No additional drivers are needed. The USB2 port is USB 1.1 compatible.

Mounting and Unmounting Volumes

When you connect the unit to the Mac for the first time and turn on the power, you may see a message saying that the disks are unreadable. This is because new drives must be formatted before use. The easiest way to do this is with Mac OS X's Disk Utility. Select "Mac OS Extended" as the format type. After the volume is formatted, an icon representing the drive volume will appear (mount) on the desktop. You can now use the volume just like an internal hard drive.

Unmount each volume before powering down the unit by dragging the volume's icon to the trash bin, or by selecting the volume then pressing Command-E. Shutting down the unit without first unmounting the volume can result in data loss.

Booting to the SilverSATA II FH

Some Macs support booting from a FireWire device. To activate this feature, you must first install OS X on the external volume. The easiest way to do this is to clone an existing system drive using a utility such as Carbon Copy Cloner or Super Duper. Next, go to System Preferences → Startup Disk. A window will list the available bootable volumes. Select the volume from which you wish to boot. Another method is to hold down the Option key during startup. A screen should appear that allows you to select the volume you wish to use. This is useful if you wish to boot from your SilverSATA II FH only some of the time.

Usage with Windows computers

Compatibility

The SilverSATA II FH is Plug-and-Play compatible with Windows XP. No additional drivers are needed. The USB2 port is USB 1.1 compatible.

Mounting and Ejecting Volumes

On first usage, or after switching RAID types, the hard drives will need to be formatted. This is easily done using Disk Management (right-click My Computer then select Manage). Select the format "NTFS". Note: The drives will appear as one logical volume because of the RAID. After the volume is formatted, you can find it by double-clicking the "My Computer" icon. You can begin using it right away.

Eject the volume before powering down the unit by single-clicking the green arrow icon on the task bar, then selecting "Safely remove…." Windows will indicate when it is safe to disconnect or turn off the SilverSATA II FH. Shutting down the unit without first ejecting the volume can result in data loss.

(Windows XP)

Booting from your SilverSATA II FH

Some PC motherboards support booting from an external device. To activate this feature, you will need to adjust the motherboard's BIOS settings. Check with your motherboard's manufacturer or owner's manual for details.

LED Indicators

- The power indicator will glow blue if the power is turned on. It will turn purple in the event of a drive problem.
- HDD Access LED will flicker when the computer accesses data on the hard drive.

Warnings and Notices

- Use only hard drives that are in perfect condition. Avoid using drives that have ever developed bad sectors during previous usage. This could lead to possible device failure or loss of data.
- The SilverSATA II FH supports drives of various specifications and different capacities. However, if you wish to use the drives in RAID 0 mode, we recommend using drives of the same brand and type for optimal performance. If drives of different capacities are used, the capacity of the smallest drive will determine how much of each drive is used. The additional capacity on the larger drives will not be used by the RAID.
- Setting the unit to RAID 0 mode will allow you to use the full, combined capacity of the drives, and offers the best data transfer speeds. However, RAID 0 offers no protection for the data. If one drive fails in a RAID 0, the data on both drives is irretrievably lost.
- If you set the unit to RAID 0 mode, do not attempt to hot swap trays. Drives must be kept together in a RAID 0, or data loss will result.

Technical Specifications

Product name & Code	SilverSATA II FH (SIS2-FH)
Data Interfaces and Speeds	1394b (FireWire 800): up to 800Mbs 1394a (FireWire 400): up to 400Mbs USB 2.0: up to 480Mbs
Drive Types Supported	3.5” SATA1 & SATA2 hard drives (Serial-ATA)
Hot-Swappable Trays	Yes
Operating System Requirements	Windows 2K, XP, Server 2003 Mac OS X
Cooling Fan	40mm ball bearing fan for cooling hard drives
Operating Temperature	50 – 85° Fahrenheit (10 – 30° Celsius)
Operating Humidity	5% to 95%, noncondensing
Power Supply	Input: 100-240VAC Output: 70 Watts
Certifications	CE/FCC
External Material	Aluminum alloy case
Shipping Weights	8 pounds, sans drives 10 pounds, with drives
Dimensions	(122mm Width x 205mm Depth x 105mm Height)
Warranty	1-year limited warranty. See warranty statement for details and limitations. We offer 90 days of free phone support (1-866-744-8722). After 90 days, email support is available at support@wiebetech.com.

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FCC Compliance Statement: "This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

SilverSATA II FH

Tested to comply with FCC standards

FOR HOME OR OFFICE USE

In the event that you experience Radio Frequency Interference, you should take the following steps to resolve the problem:

1) Ensure that your unit is plugged into a grounded electrical outlet.
2) Use a data cable with RFI reducing ferrites on each end.
3) Use a power supply with an RFI reducing ferrite approximately 5 inches from the DC plug.

If you have any questions or problems, please contact support@wiebetech.com for technical support. If you are interested in purchasing more WiebeTech products, check our website or contact sales@wiebetech.com. We appreciate being able to serve you!